BRUHATH BANGALORE MAHANAGARA PALIKE

WIDENING OF DODDABAMMASANDRA MAIN ROAD IN WARD NO 10

DETAILED ESTIMATE

Sl.No	Description of Work	Unit	No	L	B	D	Qty	Rate in Rs.	Amount in Rs.
4.00	**KERB and FOOT PATH**								
4.01	**KSRRB 300 - 1 : Earthwork excavation by manual means** in ordinary soil involving an average horizontal throw upto 2 meters and an average lift upto 1.5m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications. MORTH / chapter 3 (P-138/19.1)	Cum							
	Krishna Temple Road		1	1200.00	0.30	0.30	108.00		
	Total						**108.00**	75.60	**8164.80**
4.02	Providing and fixing **pre cast solid cement concrete kerb** stones made out of C.C. 1:2:4 with top and bottom width 114 and 165 mm respectively, 400mm high and 450mm in length finished with CM 1:3 plastering and finishing cutting, including formwork, curing, including cost of all materials, labour, hire charges of machinery, loading, unloading, lead and lift, transportation etc., complete.(P-25/5.30)	No							
	kerb								
	Nanjappa Circle to Arch		2	1000.00			2000.00		
	Krishna Temple Road		1	1100.00			1100.00		
	Total						3100.00		
	5261.50/.45						6888.89		
	Total						**6889.00**	304.56	**2098113.84**
4.08	KSRRB M800-6. Painting two coats on New Concrete Surface:-Painting two coats after filling the surface with synthetic enamel paint in all shades on new plastered concrete surfaces complete as per specifications. MORTH Specification No.803 (P-177/24.7) - On Kerb Stone	Sqm							
	kerb								
	Nanjappa Circle to Arch		2	1000.00		0.30	600.00		
	Krishna Temple Road		1	1100.00		0.30	330.00		
	Total						**930.00**	61.56	**57250.80**
							TOTAL AMOUNT OF KERB & FOOT PATH		**2163529.44**

CERTIFICATE

1) The site has been inspected and the work is found to be necessary.
2 The rates adopted are as per PW,P IWTD SR of 2013-14
3) The provisions were made in this estimate are necessary and adequate.
4) The area comes under the Bruhat Bengaluru Mahanagara Palike Limits.

Assistant Engineer
Project Division, Yelahanka Zone
B.B.M.P.

Executive Engineer
Project Division, Yelahanka Zone
B.B.M.P.

Assistant Executive Engineer
Project Division, Yelahanka Zone
B.B.M.P.

BRUHATH BANGALORE MAHANAGARA PALIKE

WIDENING OF DODDABAMMASANDRA MAIN ROAD IN WARD NO 10

TOTAL COST ABSTRACT OF ESTIMATE

5.00

Sl No.	PARTICULARS	Cost in Rs.
1	Site Clearance & Dismantling	369,898
2	Roads works & Road Furnitures	28,134,019
3	Drain Works	16,219,030
4	Footpath cum Kerb Works	2,163,529
	Construction Cost - A	46,886,477
5	Design and PMC Charges 2.0%	937,730
6	Utility Shifting Charges & Electrical Works	2,175,000
	Sub Total - B	3,112,730
	Sub Total other cost - C (A+B)	49,999,206
	Add For Rounding off	794
	Total Rs.	50,000,000

Assistant Engineer
Project Division, Yelahanka Zone
B.B.M.P.

Assistant Executive Engineer
Project Division, Yelahanka Zone
B.B.M.P

Contd...2

Executive Engineer
Project Division, Yelahanka Zone
B.B.M.P.

ADMINISTRATIVELY SANCTIONED FOR Rs 50,000,000 Lakhs

Rupees Five hundred lakhs only

Under Hdg. 00-010-15-000070

Registered ... 3 ....9.....

Subject to ... ined in

enclosed memo ... /9/...

Dt JC Yl/PRA/AS/1172/14

dated 21/2/2015 Rs - 500.00 lakhs

Joint Commissioner
(Yelahanka Zone)
BBMP. Bengaluru-92.

[redacted] Sanction for Rs.....
Technical Sanction
Accorded for Rs 500.00 Lakh
is accorded under head.....
P-2986
.....
registered as CE No. 95 Dt 21.02.15 /.....Subje
to Conditions contained in enclosed memo
No...../.....Dr.....

AE/JE TA SE (BTP) CE (BTP)

BRUHATH BANGALORE MAHANAGARA PALIKE

WIDENING OF DODDABAMMASANDRA MAIN ROAD IN WARD NO 10

DETAILED ESTIMATE

Sl.No	Description of Work	Unit	No	Length	Breadth	Depth	Quantity	Rate In Rs.	Amount in Rs.
1.00	SITE CLEARANCE AND DISMANTLING								
1.01	**Cutting of trees** girth from **600mm to 900mm** including cutting of trunks, branches and removal of stumps stacking of serviceble materials with all lead & lift, earth filling in the depressions / pit, labour charges complete as per specifications. Speicifcation No.KRBS 200-1, MORT&H Specification No.201.	Each							
	(P.No.132, I.No.18.2 of KPWD SR 2014-15)		25	--	--	--	25		
	60 feet road		3				3		
							28	540	15120.00
1.02	**Cutting of trees** girth from **900mm to 1800mm** including cutting of trunks, branches and removal of stumps stacking of serviceble materials with all lead & lift, earth filling in the depressions / pit, labour charges complete as per specifications. Speicifcation No.KRBS 200-1, MORT&H Specification No.201.	Each							
	(P.No.132, I.No.18.3 of KPWD SR 2014-15)		20	–	–	–	20		
	60 feet road		2				2		
							22	1317.60	28987.00
1.03	**Cutting of trees** girth from **1800mm to 2700mm** including cutting of trunks, branches and removal of stumps stacking of serviceble materials with all lead & lift, earth filling in the depressions / pit, labour charges complete as per specifications. Speicifcation No.KRBS 200-1, MORT&H Specification No.201.	Each							
	(P.No.132, I.No.18.4 of KPWD SR 2014-15)		5	–	–	–	5		
	60 feet road		1				1		
							6	2060.64	12364.00
1.04	**Cutting of trees** girth above **2700mm** including cutting of trunks, branches and removal of stumps stacking of serviceble materials with all lead & lift, earth filling in the depressions / pit, labour charges complete as per specifications. Speicifcation No.KRBS 200-1, MORT&H Specification No.201.	Each							
	(P.No.132, I.No.18.5 of KPWD SR 2014-15)		2	–	–	–	2		
	60 feet road		1				1		
							3	4121.82	12365.00

Sl.No	Description of Work	Unit	No	Length	Breadth	Depth	Quantity	Rate in Rs.	Amount in Rs.
1.05	KSRRB M200-12.1. **Dismantling of existing structures like culverts,bridges**, retaining walls and other structure comprising of masonry,cement concrete, wood work, steel work, including T&P and scaffolding wherever necessary, sorting the dismantled material, disposal of unserviceable material and stacking the serviceable material with all lifts complete as per specifications.111) KSRRB M200-12.3. –do– C. Prestressed / Reinforced cement concrete grade M-20 & above.MORTH specification No.202	Cum							
	(P.No.133, I.No.18.19 of KPWD SR 2014-15)								
	For Building Dismantling (LHS)								
	Raja Enterprices		1	18.30	0.80	0.15	2.20		
	Seetha silk & sarees (G+1)		2	10.75	0.50	0.15	1.61		
	City men		1	6.50	3.00	0.15	2.93		
	Mutton Stall (G+1)		2	6.00	0.50	0.15	0.90		
	Ganesh Darshani (G+1)		2	7.57	0.40	0.15	0.91		
	Biriyani Corner		1	6.90	0.30	0.15	0.31		
	RS Chicken (G+1)		2	8.00	0.30	0.15	0.72		
	Mutton Stall		1	14.50	0.32	0.15	0.70		
	For Building Dismantling (RHS)								
	Sri Veerabadreshwar - Insight Eye Clinic		1	36.50	0.90	0.15	4.93		
	Sri Sai Fast Food G+1		1	7.20	0.40	0.15	0.43		
	Exide		1	8.85	0.40	0.15	0.53		
	Bharat Auto Mobiles-Margine Free Super Bazar		2	50.60	0.60	0.15	9.11		
	Ambica Electrical - Kubera		1	24.00	0.80	0.15	2.88		
	Column								
	Total Number		20	0.45	0.23	3.00	6.21		
	For compound wall (RHS)								
			1	7.00	0.20	3.00	4.20		
	60 feet Road								
	LHS Bus stand		1	7.45	2.50	0.15	2.79		
	RHS Bus stand		1	12.50	1.00	0.15	1.88		
							43.23		
						Say	**56.00**	954.72	**53464.00**
1.06	KSRRB M200-14.1. **Dismantling of existing structures like culverts,bridges, retaining walls and other structure** comprising of masonry, cement concrete, wood work, steel work, including T&P and scaffolding wherever necessary, sorting the dismantled material, disposal of unserviceable material and stacking the serviceable material with all lifts complete as per specifications. KSRRB M200-14.2. –do– Dismantling brick/Tile work B. In cement mortar.	Cum							
	(P.No.133, I.No.18.23 of KPWD SR 2014-15)								
	For Building Dismantling (LHS)								
	Raja Enterprices		1	18.30	0.23	3.00	12.63		
	Seetha silk & sarees (G+1)		2	10.75	0.23	3.00	14.84		
	City men		1	6.50	0.23	3.00	4.49		
	Mutton Stall (G+1)		2	6.00	0.23	3.00	8.28		
	Ganesh Darshani (G+1)		2	7.57	0.23	3.00	10.45		
	Biriyani Corner		1	6.90	0.23	3.00	4.76		
	RS Chicken (G+1)		2	8.00	0.23	3.00	11.04		
	Mutton Stall		1	14.50	0.23	3.00	10.01		
	For Building Dismantling (RHS)								
	Sri Veerabadreshwar - Insight Eye Clinic		1	36.50	0.23	3.00	25.19		

Sl.No	Description of Work	Unit	No	Length	Breadth	Depth	Quantity	Rate in Rs.	Amount in Rs.
	Sri Sai Fast Food G+1		1	7.20	0.23	3.00	4.97		
	Exide		1	8.85	0.23	3.00	6.11		
	Bharat Auto Mobiles-Margine Free Super Bazar		2	50.60	0.23	3.00	69.83		
	Ambica Electrical - Kubera		1	24.00	0.23	3.00	16.56		
	60 feet Road								
	LHS Bus stand		1	7.45	2.50	3.00	55.88		
	RHS Bus stand		1	12.50	2.50	3.00	93.75		
							348.75		
						Say	**350.00**	226.80	**79380.00**
1.07	KSRRB M200-15.1. **Dismantling of existing structures** like culverts,bridges, retaining walls and other structure comprising of masonry, cement concrete, wood work, steel work, including T&P and scaffolding wherever necessary, sorting the dismantled material, disposal of unserviceable material and stacking the serviceable material with all lifts complete as per specifications. KSRRB M200- 15.2. –do– B. **Rubble stone masonry in cement mortar.**	Cum							
	(P.No.133& 134, I.No.18.27 of KPWD SR 2014-15)								
	For **compound wall (RHS)**								
			1	7.00	0.45	0.60	1.89		
	For DRAIN (RHS)		2	600.00	0.60	0.60	432.00		
	For DRAIN (LHS)		2	600.00	0.60	0.60	432.00		
							865.89		
	40%MISSING						346.36		
						Say	**519.53**	226.80	**117830.00**
1.08	**Removing B.S. slab of Drain** and stacking and (Page 23/ 5.32)	Sqm							
	RHS		1	600.00	1.20		720.00		
	LHS		1	600.00	1.20		720.00		
							1440.00		
	40%MISSING						576.00		
	TOTAL					Say	**864.00**	58.32	**50388.48**
							TOTAL OF SITE CLEARANCE & DISMANTLING WORKS		**369898.48**

CERTIFICATE

1) The site has been inspected and the work is found to be necessary.
2 The rates adopted are as per PW,P IWTD SR of 2014-15
3) The provisions were made in this estimate are necessary and adequate.
4) The area comes under the Bruhat Bengaluru Mahanagara Palike Limits.

Assistant Engineer
Project Division, Yelahanka Zone
B.B.M.P.

Assistant Executive Engineer
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Project Division, Yelahanka Zone
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BRUHATH BANGALORE MAHANAGARA PALIKE

WIDENING OF DODDABAMMASANDRA MAIN ROAD IN WARD NO 10

DETAILED ESTIMATE

Sl.No	Description of Work	Unit	No	L	B	D	Qty	Rate in Rs.	Amount in Rs.
2.00	ROAD WORK								
2.01	**KSRRB M300-11. Excavation for road way in soil by mechanical means** including cutting and pushing the earth to site of embankment upto a including trimming bottom and side slopes in accordance with requirements of lines, grades and cross sectins complete as per specifications . (P-153/19.11)	Cum							
	Nanjappa Circle to Petrol Bunk		2	500.00	2.50	0.42	1050.00		
	Petrol Bunk to Arch		2	600.00	9.50	0.42	4788.00		
	Krishna Temple Road		1	1200.00	2.00	0.42	1008.00		
	TOTAL						**6846.00**	71.28	**487982.88**
2.02	**KSRRB M400-6.1.** Construction of **granular sub-base** by providing close graded material, mixing in a mechanical mix plant at OMC, carriage of mixed material to work site, spreading in uniform layers with motor grader on prepared surface and compacting with vibratory power roller to achieve the desired density, complete as per specifications. (P - 151/20.4.2) **For Grading II Material.**	Cum							
	Nanjappa Circle to Petrol Bunk		2	500.00	2.50	0.22	550.00		
	Petrol Bunk to Arch		2	600.00	9.50	0.22	2508.00		
	Krishna Temple Road		1	1200.00	2.00	0.22	528.00		
	TOTAL						**3586.00**	1298.16	**4655201.76**
2.03	**KSRRB M400-17. Providing, laying, spreading and compacting graded stones aggregate to wet mix macadam** specifications including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed method of tipper to site, laying in uniform layers with paver in sub-base/base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications. MORTH Specification no.406 (P - 154/20.18)	Cum							
	Nanjappa Circle to Petrol Bunk		2	500.00	2.50	0.20	500.00		
	Petrol Bunk to Arch		2	600.00	9.50	0.20	2280.00		
	Krishna Temple Road		1	1200.00	2.00	0.20	480.00		
	TOTAL						**3260.00**	1438.56	**4689705.60**
2.04	**KSRRB M500-6. Providing and applying primer coat** with bitumen emulsion on prepared surface of granular base including clearing of road surface and spraying primer at the rate of **0.60 kg / sqm** using mechanical means complete as per specifications. MORTH Specification No.502 (P - 157/21.6)	Sqm							
	Nanjappa Circle to Petrol Bunk		2	500.00	2.50		2500.00		
	Petrol Bunk to Arch		1	600.00	9.50		5700.00		
	Krishna Temple Road		1	1200.00	7.50		9000.00		
	TOTAL						**17200.00**	35.21	**605577.60**

Sl.No	Description of Work	Unit	No	L	B	D	Qty	Rate in Rs.	Amount in Rs.
2.05	**KSRRB M-500-17, Providing and laying dense bituminous macadam** 50-75mm compacted thickness with 4.5% bitumen 60/70 grade, contents on prepared surface with specified graded crushed aggregates for base/ binder course including loading of material with FE loader, heating of binder aggregates and filter in hot mix plant 40-60 TPH, transporting the mixed material by tipper and laying with paver finisher to required level and grade, rolling by power roller to the achieve the desired density (but excluding primer / tack coat) including cost of all materials, labour, HOM of machineries complete as per specifications. Grading 2 MORTH/ Chapter 5. (P - 159/21.17.6)	Cum							
	Nanjappa Circle to Petrol Bunk		2	500.00	2.50	0.05	125.00		
	Petrol Bunk to Arch		1	600.00	9.50	0.05	285.00		
	Krishna Temple Road		1	1200.00	7.50	0.05	450.00		
	TOTAL						**860.00**	9063.36	**7794489.6**
2.06	**KSRRB M500-7.** Providing and applying **tack coat** on the prepared black topped surfaces at **2.5 Kg per 10 Sqm**, heating bitumen in boiler fitted with spray set (excluding cleaning of road surface) including cost of all materials, labour, HOM of machineries complete as per specifications. MORTH/Chapter 5 (P157/21.7)	Sqm							
	Nanjappa Circle to Petrol Bunk		1	500.00	9.50		4750.00		
	Petrol Bunk to Arch		1	600.00	9.50		5700.00		
	Krishna Temple Road		1	1200.00	7.50		9000.00		
	TOTAL						**19450.00**	18.74	**364454.10**
2.07	**Providing and laying bituminous concrete 40mm thick with 100-120 TPH** batch type hot mix plant producing as average output of 75 Tonnes per hour using crushed aggregates of specified grading, premixed with bituminous binder at 5.4 To 5.6% 5.00 of mix and filler, transporting the hot mix To work site, laying with a hydrostatic paver finisher with sensor control To the required grade, level and alignment, rolling with smooth wheeled, vibraTory and tandem rollers To achieve the desired compaction as per MORTH specification clause No. 500.9 complete in all respects, with 40 mm compacted thickness (Grading II) with 6% Bitumen 60/70 grade using 40-60 HMP using mechanical paver(P 161 It 21.22.6)	Cum							
	Nanjappa Circle to Petrol Bunk		1	500.00	9.50	0.040	190.00		
	Petrol Bunk to Arch		1	600.00	9.50	0.040	228.00		
	Krishna Temple Road		1	1200.00	7.50	0.040	360.00		
	TOTAL						**778.00**	11473.92	**8926709.76**
2.08	**KSRRB M800-13.** Providing and Laying of **hot applied thermoplastic compound** 2.5 mm thick including reflectorising glass beads at 250 gms per sqm area, thickness of 2.5 mm is exclusive of surface applied glass beads as per IRC:35. The finished surface to be level, uniform and free from streaks and holes complete as per specifications.MORTH Specification No. 803(P-178/24.15) - **Road Marking**	Sqm							
	Nanjappa Circle to Petrol Bunk and Petrol Bunk to Arch		2	1100.00	0.15		330.00		
	Krishna Temple Road		2	1200.00	0.15		360.00		
	TOTAL						**690.00**	475.20	**327888.00**

Sl.No	Description of Work	Unit	No	L	B	D	Qty	Rate in Rs.	Amount in Rs.
2.09	**KSRRB M800-11. Painting lines, dashes, arrows etc., on roads in two coats on New work:-** Painting lines,dashes, arrows etc on road in two coats on new work with ready mixed road marking paint confirming to IS-164 on bituminous surface, including cleaning the surface of all dirt, dust and other forign matter, demarcation at site and traffic control complete as per specifications.i) Over 10 cm in width MORTH Specification No. 803(P-178/24.11) - **Road Marking**	Sqm							
	Nanjappa Circle to Petrol Bunk and Petrol Bunk to Arch		2	1100.00	0.15		330.00		
	Krishna Temple Road		2	1200.00	0.15		360.00		
	TOTAL						**690.00**	116.64	**80481.60**
2.10	**Providing and fixing of Reflective Raised Pavement marker** (RPM's)/ **Cat eyes /** Road studs confirming to ASTM D4280 type H, having reflective panels made of prismatic lens of total internal reflection, the prismatic lens should be electronically fixed (welded) to the body made of polycarbonate mould, with a height of 20mm, size of 130mm X 105mm and reflecting area of 13Sqcm with the slope of retro reflective surface within the limit of 35+ 5 degree to the base on either side. The marker shape II display an initial minimum luminous intensity of 79mcd/lux at an entrance angle of zero degree and observation angle of 0.2degree.The corresponding values for 20 degree entrance and 0.2 degree observation angle shall be 112 mcd/lux with color multiplying factor on either cases for white, yellow and red markers being 1.0, 0.6 and 0.25 respectively" The RPM's should be fixed by using two numbers of polymer shanks using appropriate adhesive as recommended and certified by the RPM manufacturer. The raised pavement marker should support a sufficient minimum load 13635 Kg in accordance with ministry specification.(P-290/38.32)	No							
	CENTER LINE		2	311.00			622.00		
	TOTAL						**622.00**	324.00	**201528.00**
							TOTAL AMOUNT OF ASPHALT WORK		**28134018.90**

CERTIFICATE

1) The site has been inspected and the work is found to be necessary.
2 The rates adopted are as per PW,P IWTD SR of 2013-14
3) The provisions were made in this estimate are necessary and adequate.
4) The area comes under the Bruhat Bengaluru Mahanagara Palike Limits.

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BRUHATH BANGALORE MAHANAGARA PALIKE

WIDENING OF DODDABAMMASANDRA MAIN ROAD IN WARD NO 10

DETAILED ESTIMATE

Sl.No	Description of Work	Unit	No	L	B	D	Qty	Rate in Rs.	Amount in Rs.
3.00	**DRAIN WORK**								
3.01	KSRRB 300 - 1 : **Earthwork excavation by manual means** in ordinary soil involving an average horizontal throw upto 2 meters and an average lift upto 1.5m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications. MORTH / chapter 3 (P-138/19.1)	Cum							
	For New Drain Excavation								
	LHS & RHS		2	1100	0.90	1.15	2277.00		
	Desilting of Drain Krishna Temple Road		1	1200	0.60	0.40	288.00		
							2565.00	75.60	**193914**
3.02	KSRRB 2900-1 : Plain cement concrete **M10** mix with crushed stone aggregate **40 m nominal size** mechanically mixed, placed in foundation and compacted by vibration including curing for 14 days complete as per specifications MORTH Specification No.408 - .(P-244/34.1) - **Bed Concrete**	Cum							
	For New Drain								
	LHS & RHS		2	1100.00	0.90	0.15	**297.00**	4483.08	**1331474.76**
3.03	KSRB 4.2.2 : Providing and laying in position reinforced cement concrete of design mix M20 with OPC cement @ 320 kgs, with 20mm and down size graded granite metal coarse aggregates @0.878cum and fine aggregates @ 0.459cum, with superplasticiser @ 3lts confirming to IS9103-1999 Reaffirmed-2008, machine mixed, concrete laid in layers not exceeding 15cms thick, vibrated for all works in foundation plinth and ground floor level for roof slabs, staircase, lintles, retaining walls, return walls, walls (any thickness). including attached plasters, columns, piers, abutments, pillars, posts, struts, buttresses, string or lacing courses, parapets, coping, bed blocks, anchor blocks, plain window cill, fillet etc. including cost of all materials, labour, HOM of machinery, curing, complete as per specifications. Specification No. KBS 4.1, 4.6 (Page 13/4.11) - **For New Drain**	Cum							
	For New Drain								
	LHS & RHS								
	Side walls		4	1100.00	0.15	0.80	528.00		
	Bottom slab		2	1100.00	0.90	0.15	297.00		
							825.00	6065.28	**5003856.00**
	TOTAL								
3.04	KSRB 4-6.1 : Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for foundations, footings, bases of columns for mass concrete including cost of all materials, labour complete as per specifications. Specification No. KBS 4.6.2 (Page 16/4.28) - **For New Drain**	Sqm							
	For New Drain								
	Side walls		8	1100.00		0.80	7040.00		
							7040.00	236.52	**1665100.80**
	TOTAL								

Sl.No	Description of Work	Unit	No	L	B	D	Qty	Rate In Rs.	Amount in Rs.
3.05	KSRB 4.9.2 : Providing T.M.T steel reinforcement for R.C.C. work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured & paid) cost of materials, labour, HOM of machinery complete as per specifications. Specification No. KBS 4.6.3(P-19/4.46.1) - **For New Drain**	Ton							
	For New Drain coping								
	Total RCC Quantity =	Cum					825.00		
	For 1 Cum =	Kg					50.00		
	50 Kg/Cum = TOTAL	Q					41.25		
	TOTAL						**41.25**	79056.00	**3261060.00**
3.06	KSRB 2.3: **Filling available excavated earth** (excluding rock) in sides of foundations upto plinth in layers not exceeding 20 cms. In depth, compacting each deposited layer by ramming after watering with lead upto 50 m. and lift upto 1.5 m. incldng cost of all labour complete as per specifications. Specification. No. KBS 2.9 (P-06/2.10)	Cum							
	Side walls		2	1100.00	0.10	0.90	198.00		
	TOTAL						**198.00**	118.80	**23522.40**
3.07	Providing & laying **precast drain cover slab of 100** mm thickness in CM 1:3 including cost of all materials, labour, curing, transportation, loading, unloading etc, complete as per the directions of the Engineer In Charge.(1.20 x 0.60 x 0.10) (RA as per BBMP)								
			2	1050.00	1.20		2520.00		
	Krishna Temple Road Drain Missing Slabs		1	100.00	1.20		120.00		
	TOTAL	Sqm					**2640.00**	1659.00	**4379760.00**
3.08	Providing & laying precast drain cover slab of 250 mm thickness in CM 1:3 including cost of all materials, labour, curing, transportation, loading, unloading etc, complete as per the directions of the Engineer In Charge.(1.80 x 0.45 x 0.25)								
			75	1.20	0.60		54.00		
	TOTAL	Sqm					**54.00**	4993.00	**269622.00**
3.09	Refixing of slab of drain and pointing in CM 1:3 (Page 25/ 5.33)								
	Krishna Temple Road								
	TOTAL	Sqm	1	1000	1.2		1200.00		
							1200.00	75.60	**90720.00**
							TOTAL AMOUNT OF DRAIN WORK		**16219029.96**

CERTIFICATE

1) The site has been inspected and the work is found to be necessary.
2 The rates adopted are as per PW,P IWTD SR of 2013-14
3) The provisions were made in this estimate are necessary and adequate.
4) The area comes under the Bruhat Bengaluru Mahanagara Palike Limits.

Assistant Engineer
Project Division, Yelahanka Zone
B.B.M.P.

Executive Engineer
Project Division, Yelahanka Zone
B.B.M.P.

Assistant Executive Engineer
Project Division, Yelahanka Zone
B.B.M.P.